

1 1. (Three Times Amended) A method comprising:

2 providing a plurality of memory banks of semiconductor memory devices,
3 each memory bank being accessible to first and second processors for operations
4 selected from the group comprising read and write operations; and

5 storing subsets of audio data from a plurality of audio channels in the
6 plurality of memory banks, the subsets corresponding to different groups of the
7 audio channels.

1 2. (Amended) The method of claim 1, further comprising selecting said
2 memory banks for access by one of the first and second processors.

1 3. (Twice Amended) The method of claim 1 wherein the plurality of memory
2 banks includes two memory banks.

1 4. The method of claim 3 wherein one subset of said audio data corresponds to
2 even-numbered audio channels and one other subset of said audio data corresponds to odd-
3 numbered audio channels.

1 5. (Three Times Amended) A system comprising:
2 first and second buses;

3 a first processor and a second processor coupled to said first and second busses,
4 respectively; and

5 a plurality of memory banks of semiconductor memory devices coupled to said first
6 and second buses for storing said audio data, said plurality of memory banks being
7 accessible to the first and second processors for operations selected from the group
8 comprising read and write operations, said plurality of memory banks storing subsets of
9 audio data from a plurality of audio channels, said subsets corresponding to different
10 groups of the audio channels.

1 6. (Amended) The system of claim 5 further comprises a plurality of selectors
2 coupled said first and second busses to select said memory banks for access by one of said
3 first and second processors.

1 7. (Amended) The system of claim 6 wherein the plurality of selectors include
2 a plurality of address multiplexers and data transceivers.

1 8. The system of claim 5 wherein one subset of said audio data corresponds to
2 even-numbered audio channels and one other subset of said audio data corresponds to odd-
3 numbered audio channels.

1 9. (Amended) The system of claims 5, wherein the memory banks include
2 dynamic random access memories.

1 10. The method of claim 1, wherein storing further comprises interleaving the
2 subsets of data.

1 11. The system as set forth in claim 5, wherein the subsets are stored in the
2 memory banks in an interleaving manner.

1 12. The method of claim 1, wherein storing comprises storing one of the subsets
2 of audio data in one of the memory banks, said method further comprising reading stored
3 audio data from a second of the memory banks.

1 13. The method as set forth in claim 1, wherein the first processor performs a
2 read operation on a first memory bank of the plurality of memory banks and the second
3 processor performs a write operation on a second memory bank of the plurality of memory
4 banks.

1 14. The system of claim 5, wherein subsets of audio data are stored in one of the
2 memory banks and stored audio data is read from a second of the memory banks.

1 15. The system as set forth in claim 5, wherein the first processor performs a
2 read operation on a first memory bank of the plurality of memory banks and the second
3 processor performs a write operation on a second memory bank of the plurality of memory
4 banks.